FIG. 1

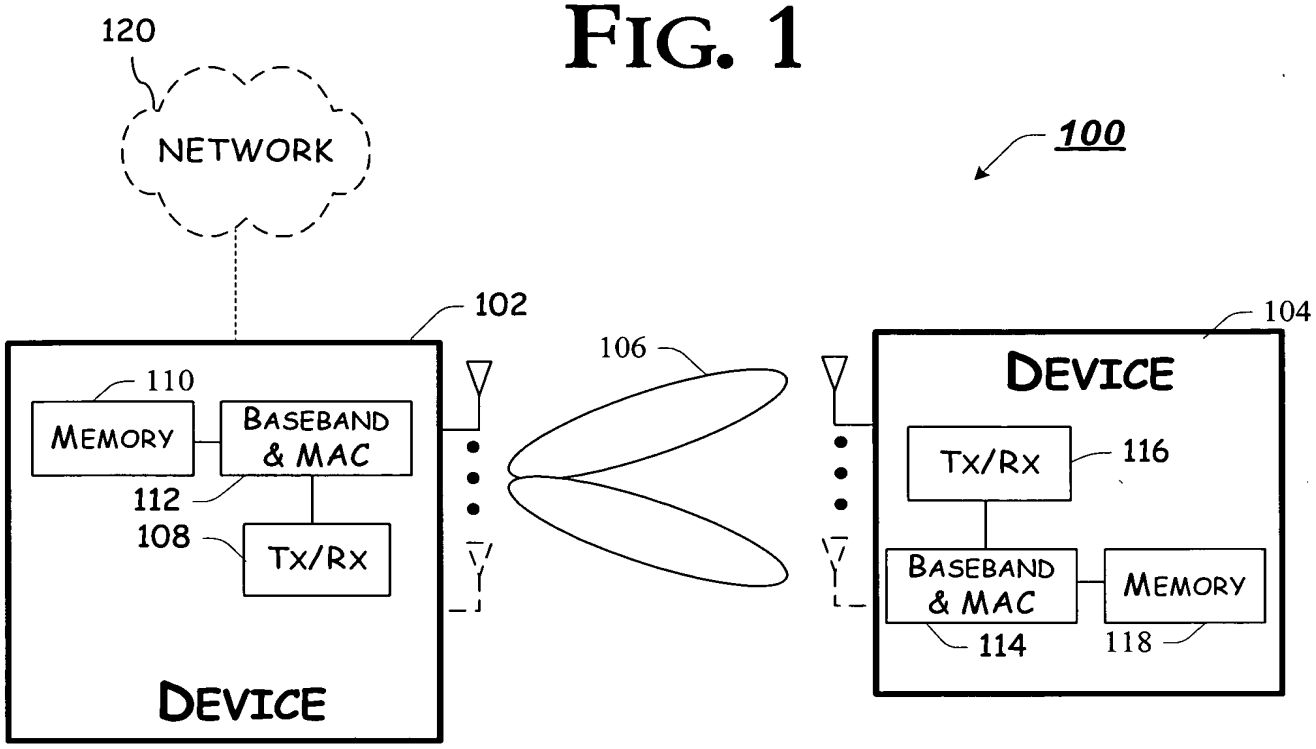

120
NETWORK
100
102
104
106
110
MEMORY
BASEBAND & MAC
112
108
TX/RX
DEVICE
DEVICE
TX/RX
116
BASEBAND & MAC
MEMORY
114
118

FIG. 2

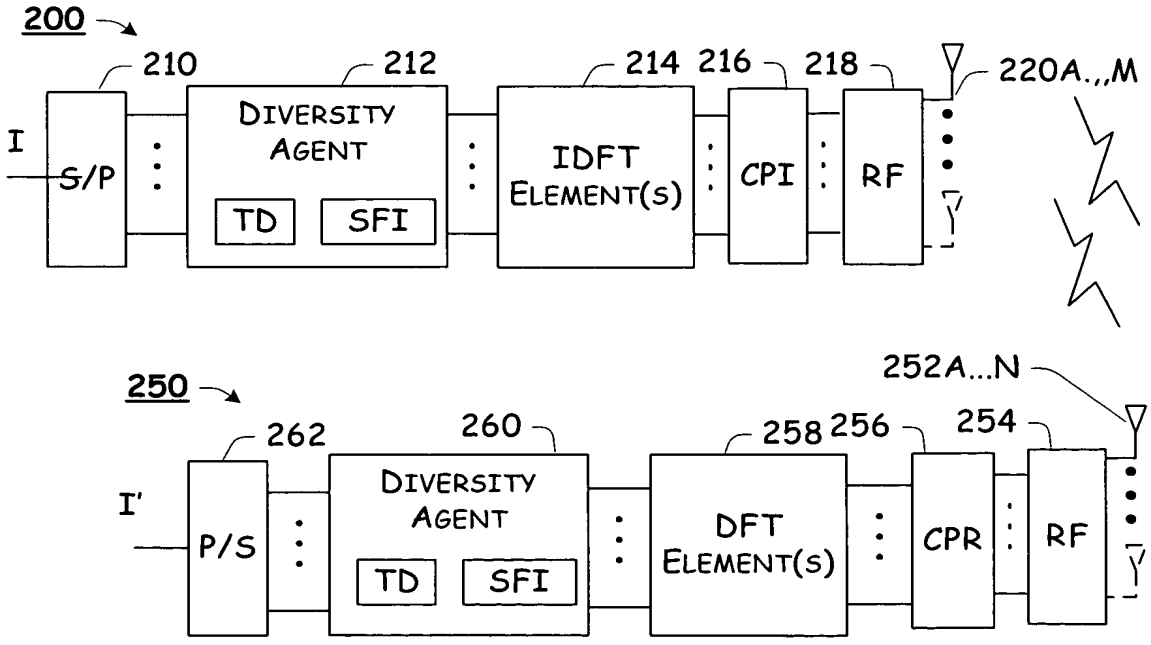

200
210
212
214
216
218
220A..,M
I
S/P
DIVERSITY AGENT
TD
SFI
IDFT ELEMENT(S)
CPI
RF
250
252A...N
262
260
258
256
254
I'
P/S
DIVERSITY AGENT
TD
SFI
DFT ELEMENT(S)
CPR
RF

FIG 3

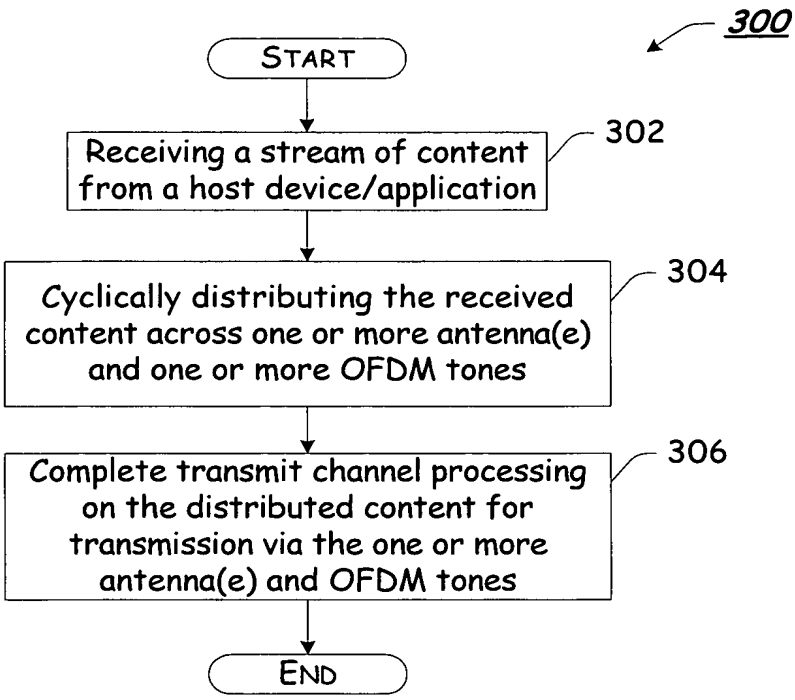

300
START
Receiving a stream of content from a host device/application
302
Cyclically distributing the received content across one or more antenna(e) and one or more OFDM tones
304
Complete transmit channel processing on the distributed content for transmission via the one or more antenna(e) and OFDM tones
306
END

FIG. 4

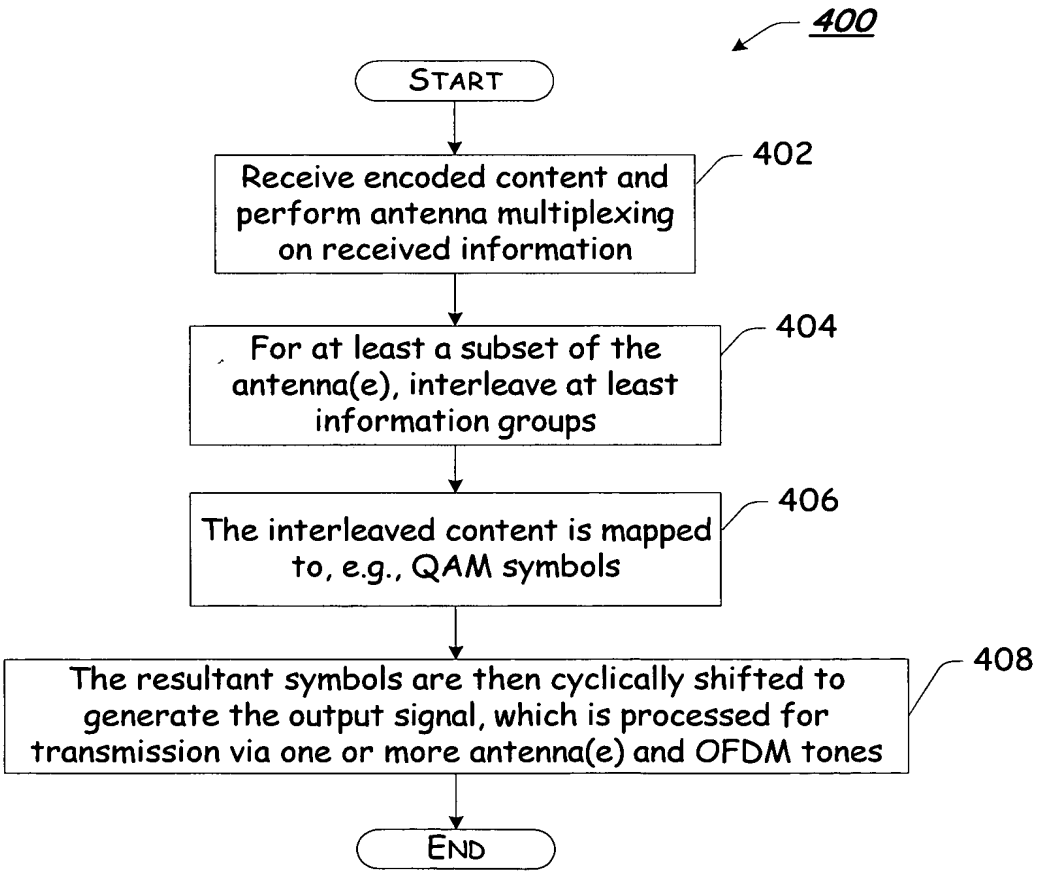

400
START
Receive encoded content and perform antenna multiplexing on received information
402
For at least a subset of the antenna(e), interleave at least information groups
404
The interleaved content is mapped to, e.g., QAM symbols
406
The resultant symbols are then cyclically shifted to generate the output signal, which is processed for transmission via one or more antenna(e) and OFDM tones
408
END

FIG 5

500

$$\left[\begin{bmatrix} x_1 & x_2 & \dots & x_{N/L} \\ x_{N/L} & x_1 & x_2 & \dots \end{bmatrix}_1 \begin{bmatrix} x_1 & x_2 & \dots & x_{N/L} \\ x_{N/L} & x_1 & x_2 & \dots \end{bmatrix}_2 \dots \begin{bmatrix} x_1 & x_2 & \dots & x_{N/L} \\ x_{N/L} & x_1 & x_2 & \dots \end{bmatrix}_L \right]$$

FIG. 6

600

$$\left[\begin{bmatrix} [b_1, b_5] & [b_9, b_{13}] & [b_{17}, b_{21}] \\ [b_{18}, b_{22}] & [b_2, b_6] & [b_{10}, b_{14}] \end{bmatrix}_1 \begin{bmatrix} [b_3, b_7] & [b_{11}, b_{15}] & [b_{19}, b_{23}] \\ [b_{20}, b_{24}] & [b_4, b_8] & [b_{12}, b_{16}] \end{bmatrix}_2 \right]$$

FIG. 7

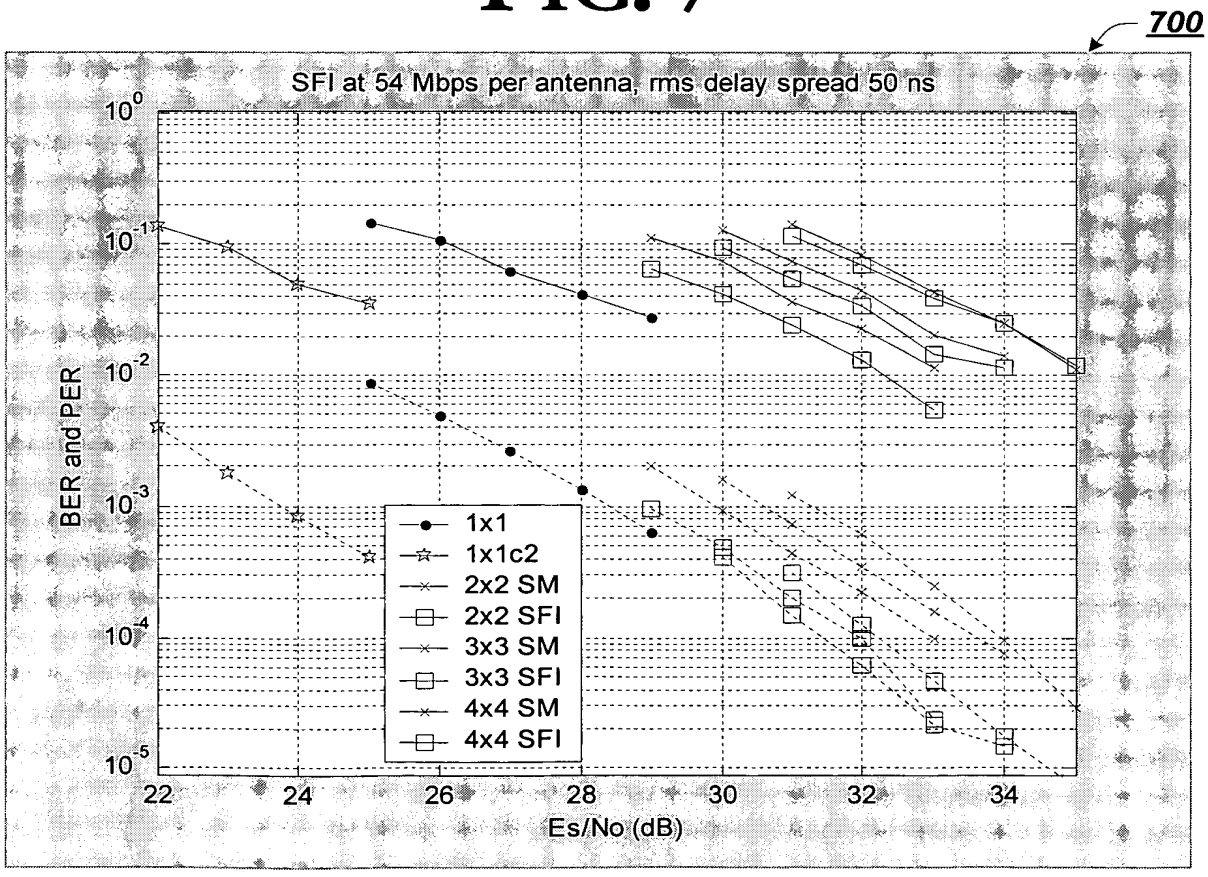


FIG 8

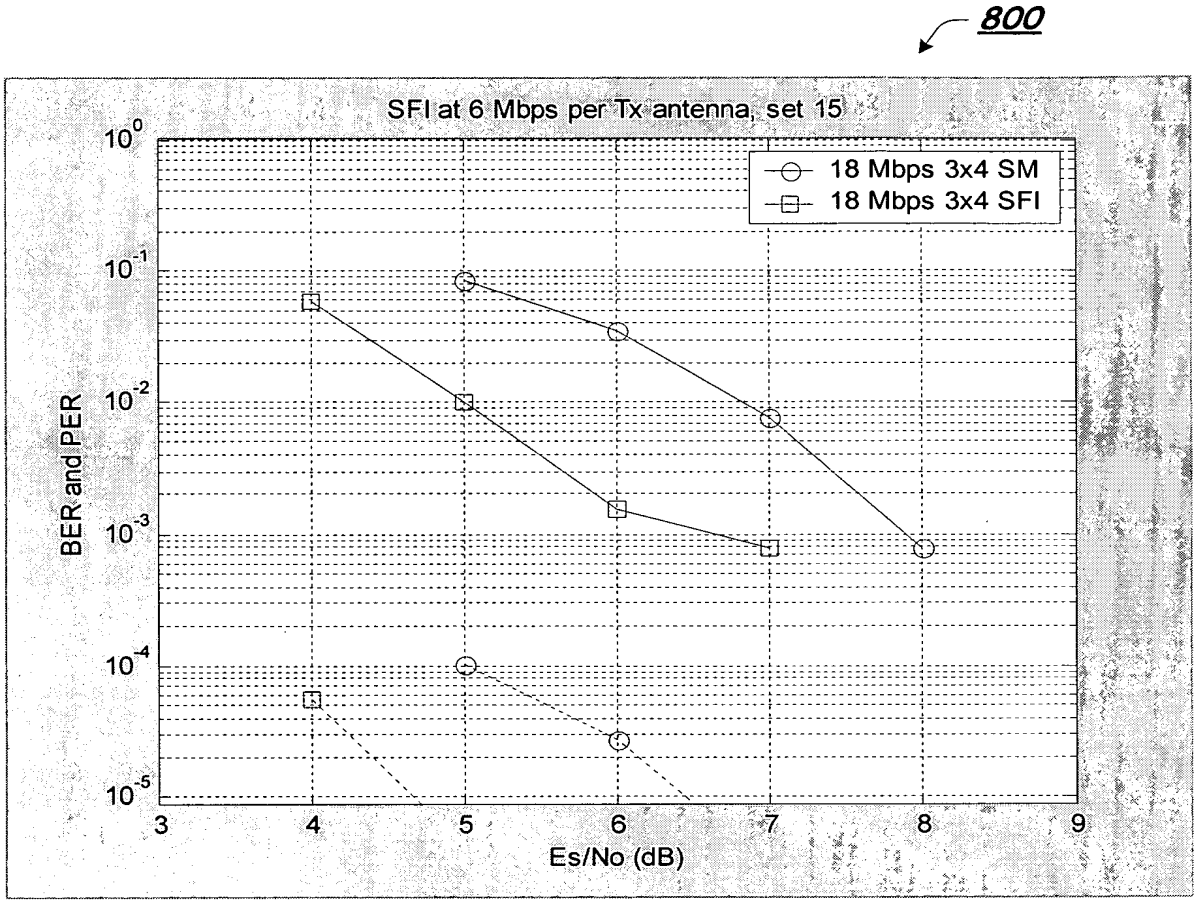
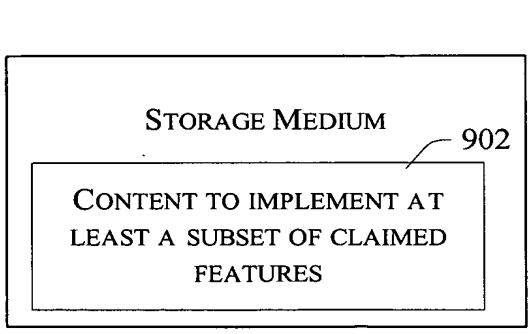

800
SFI at 6 Mbps per Tx antenna, set 15
18 Mbps 3x4 SM
18 Mbps 3x4 SFI
BER and PER
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
3
4
5
6
7
8
9
Es/No (dB)

FIG. 9


900
STORAGE MEDIUM
902
CONTENT TO IMPLEMENT AT LEAST A SUBSET OF CLAIMED FEATURES